

**METHODS AND SYSTEMS FOR PERFORMING UNIT TESTING ACROSS
MULTIPLE VIRTUAL MACHINES**

5

ABSTRACT

A virtual machine manager executes a test program for performing unit test of target program on a plurality of virtual machines. The virtual machine manager creates a network of a specified plurality of virtual machines according to a configuration specification for conducting unit tests. Unit testing of the target program being executed on the specified plurality of virtual machines is then made possible by method of code invocation described herein whereby units of code of a target program may be specified along with one or more of virtual machines on which they are to be executed. In response to a failed execution, an exception object is thrown by the virtual machine on which the exception occurred and caught by the virtual machine manager for identifying the exact virtual machine in the network on which the exception occurred.